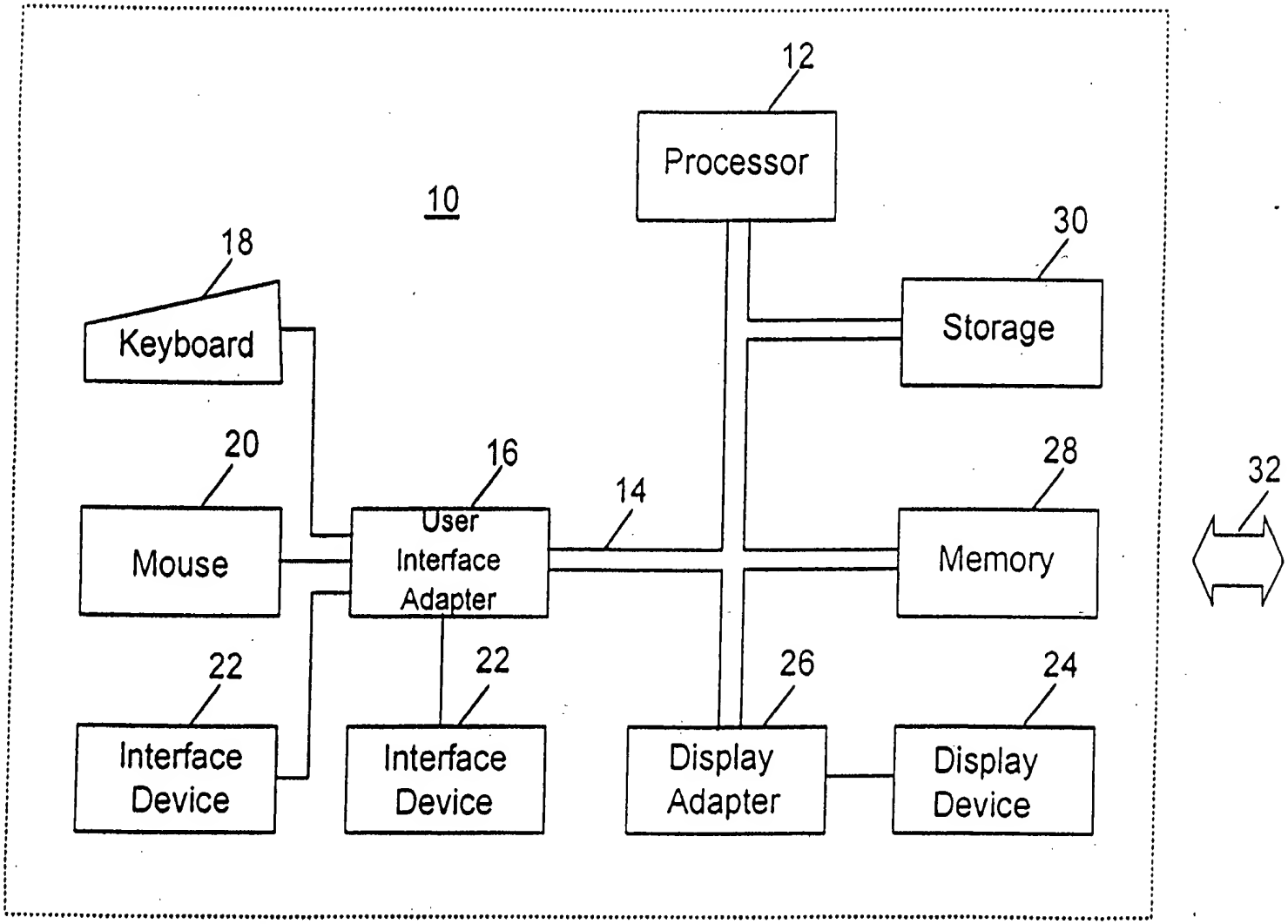
10
12
Processor
18
Keyboard
30
Storage
20
Mouse
16
User Interface Adapter
14
28
Memory
32
22
Interface Device
22
Interface Device
26
Display Adapter
24
Display Device

FIG. 1

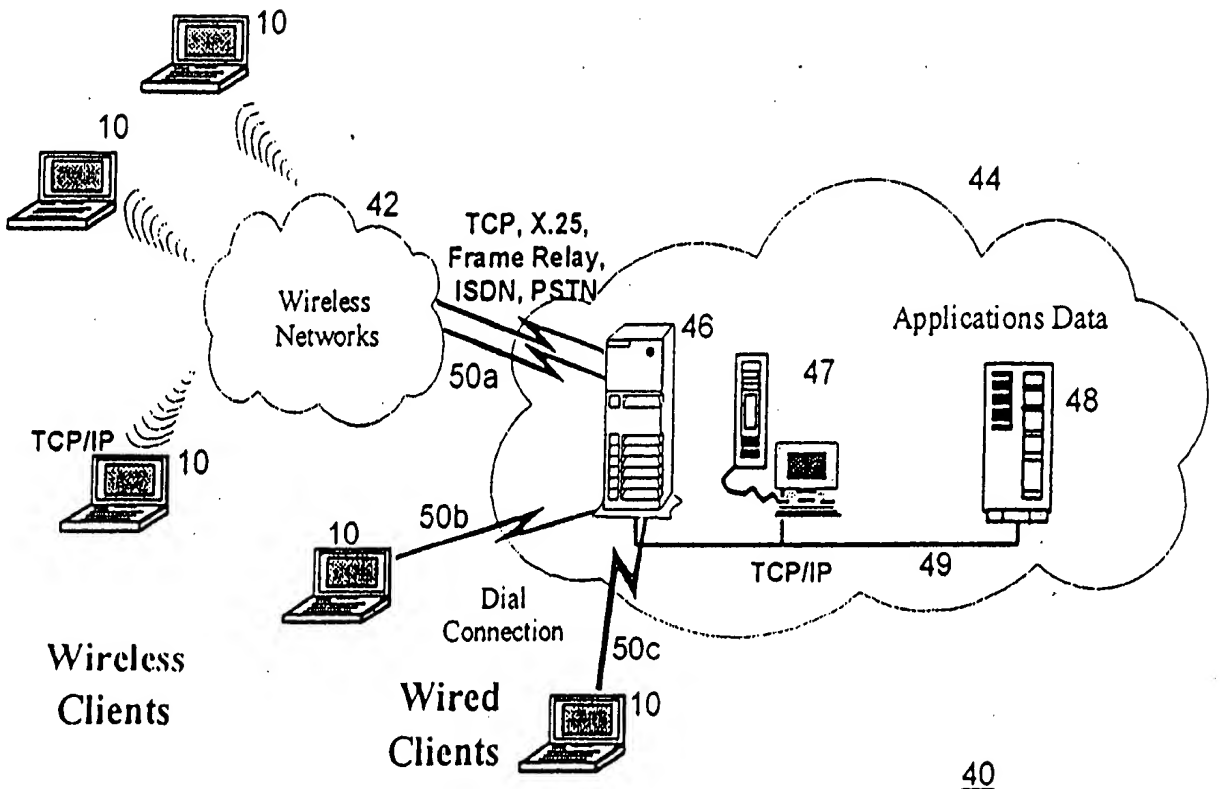
10
10
42
Wireless
Networks
TCP, X.25,
Frame Relay,
ISDN, PSTN
44
46
Applications Data
47
48
50a
TCP/IP
10
10
50b
TCP/IP
49
Dial
Connection
50c
Wireless
Clients
Wired
Clients
10
40

Fig. 2

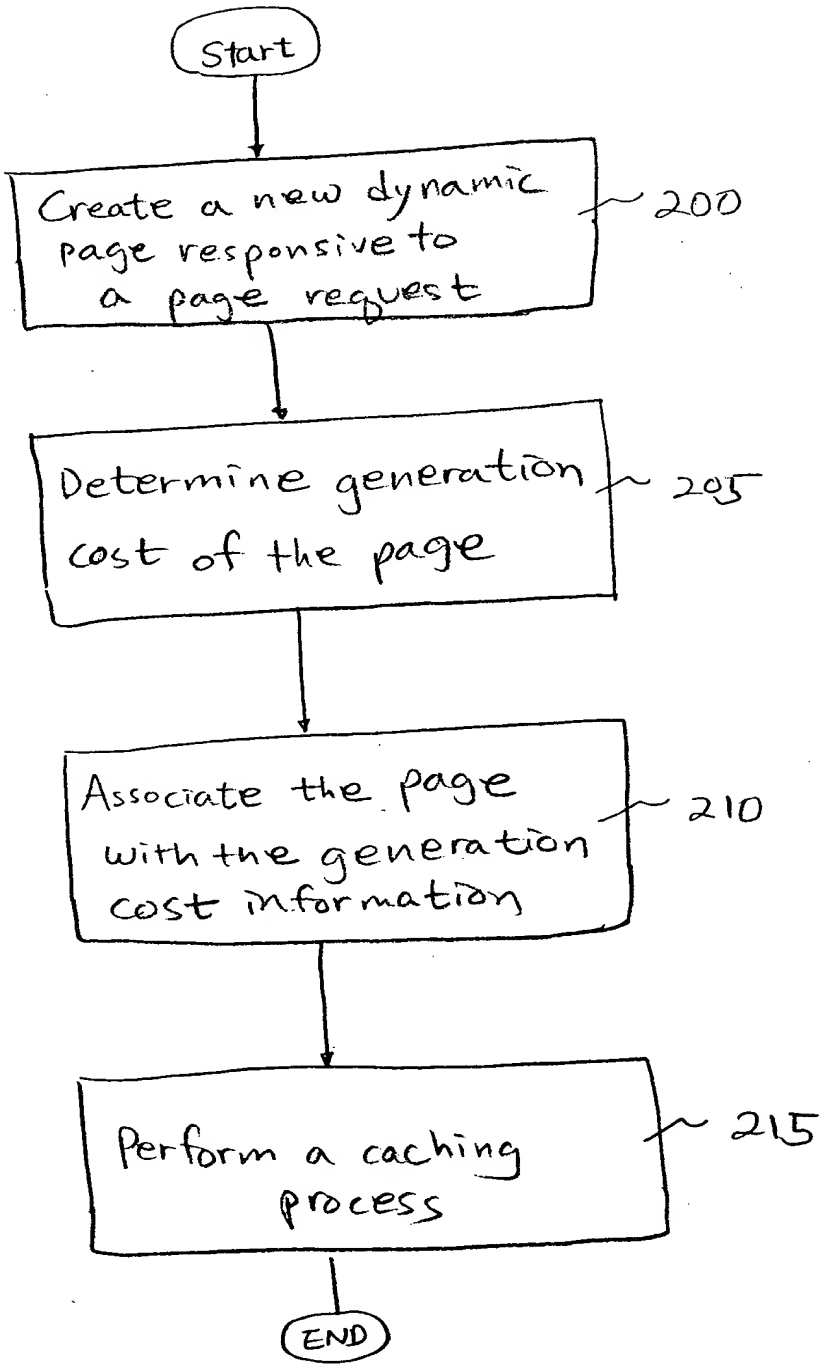
Start
Create a new dynamic page responsive to a page request
200
Determine generation cost of the page
205
Associate the page with the generation cost information
210
Perform a caching process
215
END

FIG. 3

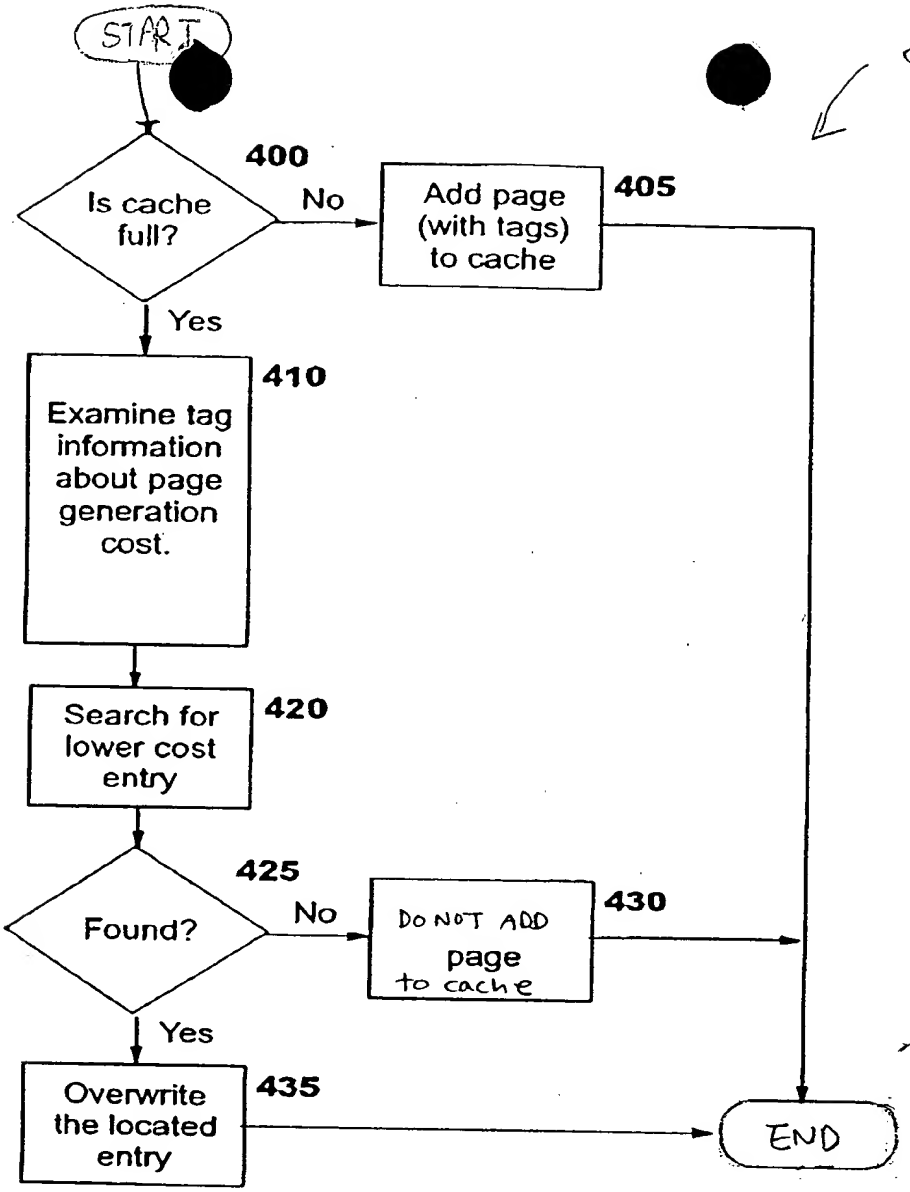
START
Step 215
400
Is cache full?
No
Add page (with tags) to cache
405
Yes
Examine tag information about page generation cost.
410
Search for lower cost entry
420
425
Found?
No
DO NOT ADD page to cache
430
Yes
Overwrite the located entry
435
END

FIG. 4

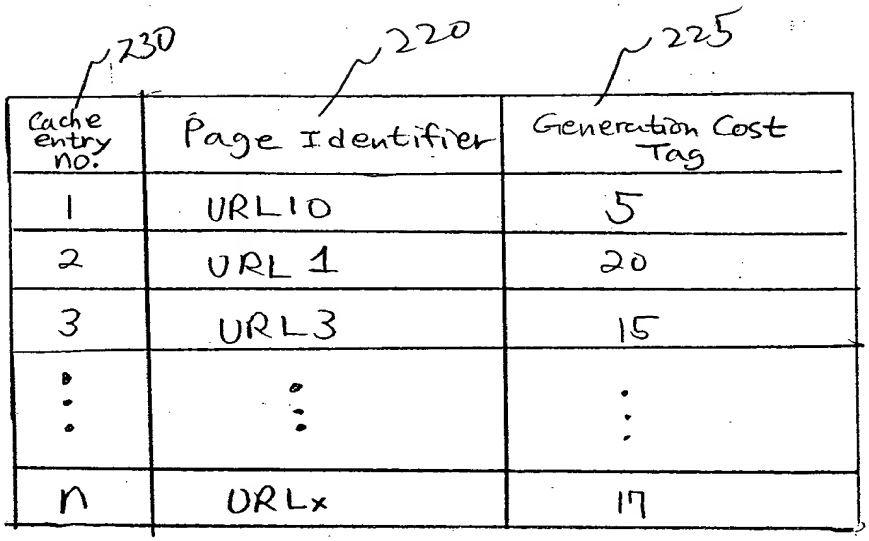
230
220
225
Cache entry no.
Page Identifier
Generation Cost Tag
1
URL10
5
2
URL 1
20
3
URL3
15
n
URLx
17

FIG. 5

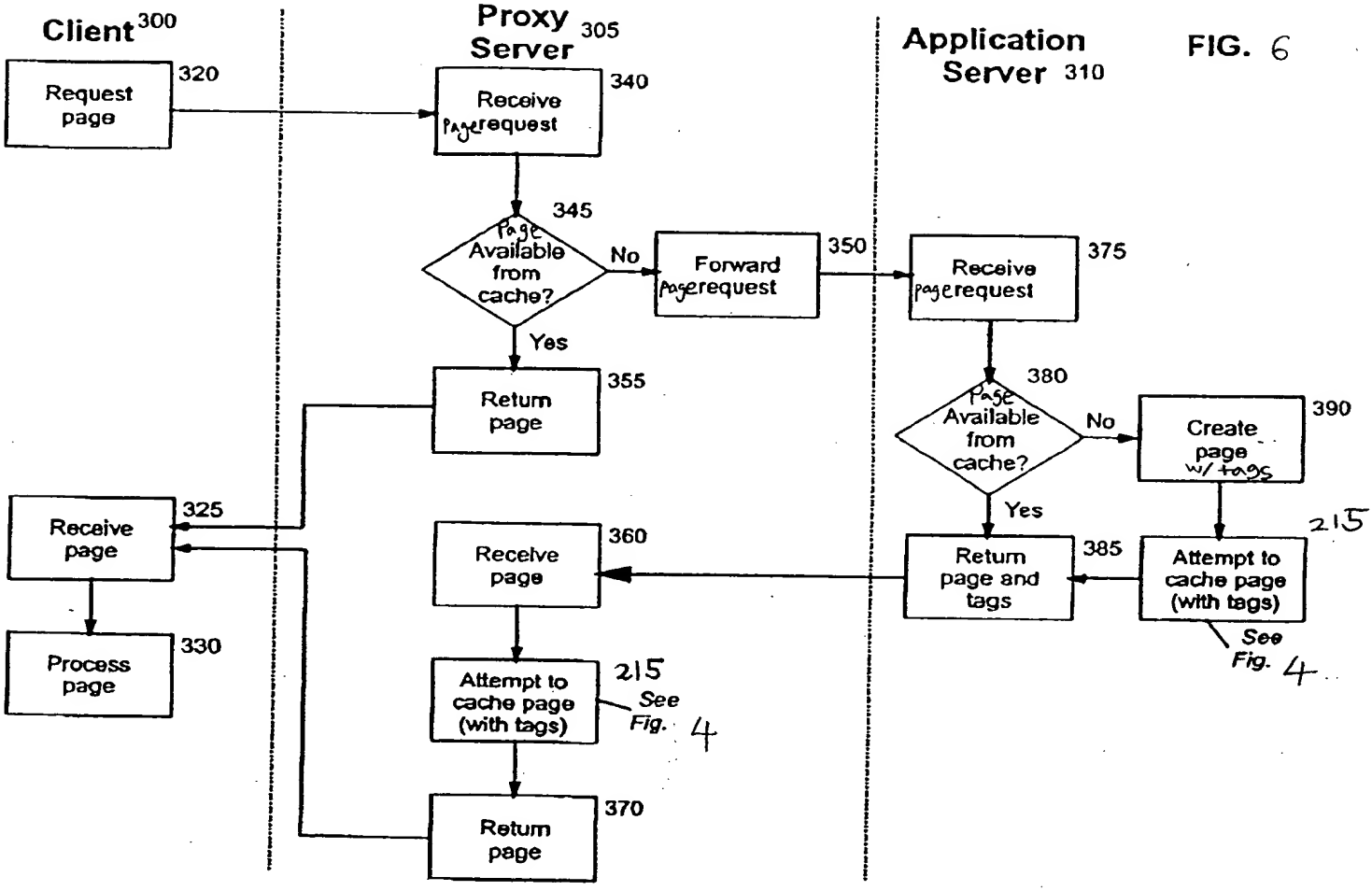
Client 300
Proxy Server 305
Application Server 310
Request page
320
Receive page request
340
Page Available from cache?
345
No
Forward page request
350
Receive page request
375
Yes
Return page
355
Page Available from cache?
380
No
Create page w/ tags
390
Yes
Receive page
325
Receive page
360
Return page and tags
385
Attempt to cache page (with tags)
215
See Fig. 4
Process page
330
Attempt to cache page (with tags)
215
See Fig. 4
Return page
370

FIG. 6